Perlite thermal expansion feature is a rock. When expanded perlite grains composed of glassy aggregates turned into foam, expandable up to 20 times its initial volume, is fairly light, heat and sound insulation is providing a rock. Our country has 74% of the possible perlite reserves in the world. Perlite plasters, about ten times better than conventional sand plaster provides thermal insulation.

In this study, the development of a plaster material with perlite aggregate having properties such as high thermal insulation, sufficient compressive and flexural strength, low water absorption and capillarity, resistant to effect of freeze-thaw and other environmental conditions was aimed. Mechanical properties such as compressive strength, flexural strength and physical properties such as thermal conductivity coefficient, mass per unit volume, capillarity of the plasters specimens produced was also examined.

As a result, when used plasters with perlite in construction sector, energy savings will be achieved by using own resources and the economy will be affected in a positive direction in our country which imports a large part of the energy needs.